

Astigmatism in Mirror Spectrometers,  
by M. Czerny, A. F. Turner.  
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AEC NP-T-1279-Draft

4 CCR - b 1182(L)  
AEC SCL-T- 329  
Sci-Phys 291,933  
Nov 65

Bent and Transverse Oscillations of Piezo-Electrically  
Excited Quartz Plates, by H. Doerffler, 30 pp.

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SLA 57-1566

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May 58

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Calculation of the Natural Line-Width on the Basis  
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Wigner.

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pp 54-73.

AT&T 292-DJ

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the Two 111-Faces in Zinc Blende, by D. Coster,

GERMAN, per, Z Physik, Vol LXIII, 1930, pp 345-369.

INSDOC T1762

Sci  
Jul 59

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REFLECTION OF X-Rays on Absorbing Ideal Crystals, by J. A. Prins,  
GOVERNMENT USE ONLY  
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LXXXI, 1930, pp 477-493. P200181267  
RSIC-659

Sci-Phys  
Jul 67

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Smakula, Alexander.

ON THE DISCOLORATION OF ALKALI-HALIDE CRYSTALS BY ULTRAVIOLET LIGHT (Über die Verfärbung der Alkalihalogenidkristalle durch Ultraviolettes Licht), [1962] 18p. 8 refs.

Order from SLA \$1.60

63-10770

Trans. of Zeit[schrift] für Physik (Germany)  
1930, v. 63, p. 762-770.

DESCRIPTORS: Discoloration, \*Halides, \*Crystals,  
\*Ultraviolet radiation, Absorption, Lithium compounds,  
Rubidium compounds, Potassium compounds, \*Color  
centers, Photochemistry.

This paper contains the absorption spectra for mode-one  
discoloration of the substances LiF, RbBr, and KI.  
Absolute values are given for the absorption constant  
 $\bar{\chi}_c$  in the long-wavelength satellite of the first ultra-  
(Physics--Solid State, TT, v. 10, no. 1) (over)

63-10770

I. Smakula, A.

Office of Technical Services

Filamentary, Visible Electron Beams,  
by E. Bruche and W. Ende  
GERMAN, per, Zeits. fur Phys., Vol. 64,  
p. 186 (1930)  
O.A./Trans.-1041

FEB 71

The Changes of Electrical Conductivity of pt. by  
Removing the Gas in a High Vacuum and Subsequent  
Charging with Hydrogen, by Klara Weil, 7 p.

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No 3/4, pp 237-247.

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Vol 2, No 12

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DIAMAGNETISM OF METALS. [1961] 13p. 2 refs.  
Order from SLA m\$2.40, ph\$3.30 61-10818  
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v. 64, no. 9/10, p. 629-637.

61-10818  
1. Metals--Magnetic  
properties  
2. Title: Diamagnetism  
I. Landau, L.

148669

Office of Technical Services

(Unannounced)

Intensity and Natural Width of the Blue Cesium  
Doublet. I., by Wilhelm Schutz.  
GERMAN, per, Zeit. fuer Physik, Vol 64, 1930,  
pp 682-696. 9232895  
ABC ORNL-tr-1180

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Effect of Foreign Gases on Selective Reflect-  
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O. Schmettler.

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AEC/NP-Tr-1844

ALL REG 9091. 9F(CTO/640)

Sci/Phy  
Mar 70

400,191

Agency: Air Force

U. S. A. ID: 0001 70-4

R-11603-D

4 May 70

Title: Über dem Grundterm der Zweielektronenprob.

Author: Dilleraas, Eril A

Journal: Z. fur Physik 65, 209-225

Language: German to English

Special Instructions: Please translated  
and type one copy

Effects of Slit Widths upon Distribution  
of Intensity in Spectral Lines, Pt. I.,  
by P. H. van Cittert.

GERMAN, per, Zeitschrift fuer Physik,  
Vol 65, 1930, pp 547-63.

SIA TT-46-11078

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Sci  
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Numerical Calculation of the 2S Terms of Ortho and Para-Helium [Numerische Berechnung Der 2S-Terme Von Ortho- Und Par-Helium], by Egil A. ~~Hylleaa~~ Hylleraas, Bjarne Undheim, 15 pp.

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pp 759-772.

CIA/FDD XK-1318  
NO FOREIGN DISSEM

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Jan 63

USIB INTERNAL USE ONLY

A New Method for the Measurement of Very Low  
Vapor Pressures. The Vapor Pressures of Mercury  
and of Potassium. Part III, by H. Mayer.

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NTC 71-13784-07D

REF. - U.S.N.L. - Tr - 10198

P911064 968-V

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Feb 72

(FDD 27142)

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Clausius 8 pp.

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The ~~gap~~ Cause of the High Permeability  
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GERMAN, per Z Physik, Vol LXVIII, No 5/6, 24 Mar 1931,  
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Sci - Electricity  
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With the Help of Concave Crystals, by H. E. Johann  
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AEC-ID-5764

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Effect of Slit Width Upon Distribution  
of Intensity in Spectral Lines, Pt. II.,  
by P. H. van Cittert.  
Groning, pax, Zeitschrift fuer Physik,  
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SLA TX-66-11071

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Bei  
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The Behavior of an Electron in a Homogeneous Electric Field According to the Relativistic Theory of Dirac, by Fritz Sauter.  
GERMAN, per, Zeit Physik, Vol 69, 1931,  
pp 742-764.  
NASA TT F-12,030



Sci-Phys  
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Determination of Equilibrium Between  
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Vapor by a Molecular Beam Method,  
By, L. C. Lewis.  
Original, per, Z. Physik, Vol CXIX, 1931,  
pp 786-809/  
NASA TT F-9525

U.S. GOVERNMENT USE ONLY  
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Jan 66

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Experimental-technical Preparations for Atomic  
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Arno Brasch, Fritz Lange.

BRAN, per, Zeitschrift fur Physik, Vol LXX,  
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Scientific - Nuclear Physics

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Quantum-Theoretic Contributions to the  
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pp 204-386  
SLA TT 64-20132

Apr 67

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Energy Loss of Slow Electrons in Hydrogen,  
by Hans Ramden, 28 pp.

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pp 353-374.

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Intensity and Natural Width of Spectral Lines, by  
E. F. M. van der Held.  
GERMANY, per, Zeit fur Physik, Vol 70, 1931, pp 508-  
515. P500225368-V  
Dept of Navy NIC Trans No 2621

AEC CRNL-L-H472  
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Concerning the Collision Broadening of Spectral  
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A. Jablonski

GERMAN, per, Zeit fuer Physik, Vol LXX, 1931,  
pp 723-732.

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TT-11G TT-12 G U  
(translation on tape)

Scientific - Physics  
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On the Collision of Two Particles with  
Reference to the Retardation Energy,  
by Christian Moller, 12 pp. /231  
GERMANY, per, Z fur Physik, Vol LXX, 1931,  
pp 786-795.  
Dept of Navy Tr 4281/NRL Tr No 1033

Sci - NS  
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Kersten, Martin.  
ON THE DEPENDENCE OF THE MAGNETIC  
PROPERTIES OF NICKEL ON ELASTIC STRESSES.  
[64p] 32refs.  
Order from SLA \$6.60

TT-64-16948

Trans. of Z[eitschrift] f[ür] Physik (Germany) 1931,  
v. 71, p. 553-592.

(Physics--Magnetism, TT, v. 12, no. 5)

TT-64-16948  
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Office of Technical Services

The Raman Effect of Rock Salt,  
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S.L.A. Mr Pool

Abc. NKL-172

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Study of Anomalous Dispersion of Excited Gases,  
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Excited Helium, by S. Levy, 13 p.

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Sci  
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Vol III, No 3

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The Question of the Chemical Bond. Part I  
by F. Hund.  
GERMAN, per, Zeitschrift fuer Physik, Vol 73,  
1931, pp. 1-30.  
NTC 69-10604-07D

Sci-Chem  
July 69

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On the Theory of the Breakdown of Dielectrics,  
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GERMAN, per, Z Physik, Vol. LXXIII, No 1-2,  
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SIA 57-2379

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A New Method for Measuring Conductivity Without  
Electrodes, by Werner Braunbek, UNCLASSIFIED  
27 pp.

GERMAN, per, Z Physik, Vol XXX LXXIII,  
1931, pp 312-334.

AEC Tr 3118

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Change of Electrical Conductivity of Molten  
Bismuth Upon Solution of Bismuth Chloride,  
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GERMAN, per, Z Physik, Vol LXXIII, 1931,  
pp 335-347.

AEC Tr 3119  
14-18-15  
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Sci - Phys  
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The Question of the Chemical Bond. Part  
II. For the Understanding of Organic  
Chemistry, by F. Hund.  
GERMAN, per, Zeitschrift fuer Physik,  
Vol 73, 1931, pp. 565-77.  
NTC 69-1605-07D

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July 69

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Electrical Strength and Crystal Structure, by A. V. Hippel,  
35 pp.  
GERMAN, per, Z fuer Physik, Vol LXXV, 1932,  
pp 145-170. 9226156  
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Sci-Phys  
Jan 65

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<p>Fock, V. CONFIGURATION SPACE AND SECOND QUANTIZATION, tr. by Charles Ray Smith. 17 Jul 63 (41)p. 9refs. NBS Trans. T8-60. Order from OTS, SLA, or ETC \$4.60 TT-63-23724  Trans. of Zeitschrift für Physik (Germany) 1932, v. 75, p. 622-647. (Abstract available)  DESCRIPTORS: *Quantum statistics, *Field theory. Operators (Mathematics),  The connection between the method of quantized wave functions and the method of coordinate space is ex- amined. The operators of second quantization are represented in a set of configuration spaces for 1, 2, ... particles. The representation which is obtained makes possible a simple derivation of the Hartree equations with exchange. (Author) (Physics--Theoretical, TT, v. 11, no. 2)</p>	<p>TT-63-23724 I. Fock, V. II. NBS Trans-T8-60 III. National Bureau of Standards, Washington, D.C.  Office of Technical Services</p>
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Characteristic Infra-Red Frequencies of  
Alkali Halide Crystals, by R. Bowling Barnes,  
9 pp.

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pp 723-734.

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Temperature Dependence of Plasticity and  
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AEC Tr 2715

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Ultraviolet Absorption of Nitrates and Chromates at  
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AEC Tr 3174

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May 58

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X-Ray Measurements on Solid Nitrogen and Oxygen, by  
M. Ruhemann, pp 27

GERMAN, per, Z Physik, Vol LXXVI, 1932, pp 368-365

SIA 57-3479

Sci  
Apr 59

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Magnetic Analysis of Internal Stresses, by M. Kersten,  
GERMAN, pr.Z. Physik, Vol 76, 1932, pp 505-512.  
BISI 9083

June 71

The Inverse Stark Effect for the Second Terms  
of the Principal Series of Rubidium and  
Cesium, by Y. T. Yao.  
GERMAN, per, Zeitschrift fur Physik, Vol 77,  
No 5-6, 1932, pp 307-316.  
NASA TT F-11,297

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The Theory of Coupling-Width, by V. Weisskopf,  
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EEur - Germany  
Scientific - Physics

Determination of the Transition Probability 2P-1S  
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pp 459-477. 9232739  
AEC ORNL-tr-1143

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The Geometry of Acceleration Fields and Their  
Importance in Gas-Focussed Electron Beams, by  
E. Bruchs.  
GERMAN, per, Zeits. Phys., Vol 78, 1932,  
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feb 71

R-4502-D

The Ignition Voltage of Helium, Neon and Argon  
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GERMAN, per, Z fuer Physik, Vol LXXVIII, 1932,  
pp 111-122.

\*JPRS/Air Force

Oct 64

On Magneto-Elastic Phenomena on Vibrating Wires  
and Bars in the Magnetic Field, by O. Auwers,  
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Sci - Electricity

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The Gradient in the Positive Mercury Column,  
by J. Elensmaas,  
GERMAN, per, Z fuer Physik, Vol LXXVIII, 1932,  
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\*JPRS/Air Force

Oct 64

The Absorption Spectra of Oxygen Under  
High Pressure and the Existence of Tetra-  
Atomic Oxygen Molecules. I: Ultraviolet  
Bands Between 2900 and 2300 Å, by  
W. Finkelnburg.  
GERMAN, per, Zeit Physik, Vol 79, 1932,  
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NASA TT F-12,108

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SIA R-3420

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The Break-up of the Pb Lattice, by G. Hevesy.  
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The Magnetization of Paramagnetic Crystals  
in Alternating Fields, by E. Waller. UECI

GERMANY, ger., Z Physik, Vol LXXIX, 1932,  
pp 370-389.

TIL F 5086

Sci - Phys  
Jun 60

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General Theory of the Broadening of Spectral Lines, by W. Lenz

GERMAN, per, Zeit fuer Physik, Vol LXXX, 1933  
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Air Res and Dev Command TT-14 G  
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Scientific - Physics  
Jan 5/6 CTS

31 TT-15 G  
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TT-16 G

Behavior of Barrier-Layer Photocells When Irradiated  
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SCIA-548

Scientific - Physics

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Jun 52 CRS

(FDD 26414)

The Reflection at Crystal Splitting Planes of the  
Molecular Rays Emitted by Mercury, by B. Josephy, 10 pp.

GERMAN, per, Zeit fur Physik, Vol LXXX, 1933, Brunswick  
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Sci - Physics, Molecular Physics

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Rotation Structure of Raman Bands of Polyatomic  
Molecules, by G. Placzek, E. Teller.  
GERMAN, ppx, Zent Physik, Vol 81, 1933,  
pp 209-250.  
AMC OEMI, Tr-1742

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Stopping Power of Atoms Having Many  
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GERMAN, per, Zeitschrift Physik, Vol 81,  
pp 363-376, 1933. 7212285

AEC-UCRL-Tr-972

Sci - Phys  
Oct 63

241-132

Total Reflection of X-Rays by Thin Layers, by  
A. I. Alichanow, L. A. Arzinovic, 18 pp.  
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Apr 69

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Experiments for the Separation of Isotopes  
According to the Method Given by G. Hertz, by  
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ABC Tr-4396

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Sci - Phys  
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To the Dispersion Theory of X-Rays, by H. Kondi,  
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GERMAN, per, Z fuer Physik, Vol LXXXIV, 17 Ju1  
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Sci - Phys  
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Under ~~Top Secret~~  
order from ATC

A Contribution to the Electrical Adsorption of Gases  
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GERMAN, per, Z fuer Physik, Vol LXXXIV, 1933,  
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Diffusion of Metals in Hg, by F. Weischedel.  
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Sci-Mat  
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Current Distribution  $\star$  in a Superconducting Sphere,  
by R. Becker, et al.  
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Combination Relations in the Absorbtion Spectrum  
of Liquid Oxygen, by J. W. Ellis, K. O. Kneser,  
13 pp.

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Sci - Phys  
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Weisskopf, V.  
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(Die Streuung des Lichtes an angeregten Atomen) by  
D. A. Sinclair. 1962, 36p., 8 refs. NRCC Technical  
trans., 1028.  
Order from NRCC \$2.00 NRCC C-4028

Trans. of Zeitschrift für Physik (Germany) 1933, v. 83,  
p. 451-481.

DESCRIPTORS: Atoms, Excitation, Light, Scattering.

62-22905

- I. Weisskopf, V.
- II. NRCC TT-1028
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- IV. National Research Council  
of Canada

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A New Method for Measuring the Intensity of Molecular Beams, by I. Estermann, O. Stern, 8 pp.

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Sci - Phys

Aug 62

205° 905°

Combination Calculation in the Absorption Spectrum  
Liquid Oxygen, by J. W. Ellis, H. C. Kneser.

GERMAN, per, Z fuer Physik, Vol LXXXVI, 1933,  
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Sci - Phys  
Jan 62

The Reflection of Mercury Molecular Beams  
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13pp  
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1933, No 11/12, pp 755-762  
SIA TT-64-16394

Sci - Phy  
May 67

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Transcription of microfilm strip 100-1000401250048-4  
by [unclear], May 16, 2002.

CHEKAN, name, Zoltan P., Keys UNKNOWN, 100-100048-4  
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NRA, Re: DIA

16, 16-24

Scientific - Electronics

Attempt at a Theory of the Beta Rays, xt by E. Fermi  
19 pp.

GERMAN, per, Z fuer Physik, Vol LXXXVIII, 1934,  
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AEC UCRL Tr-726  
CEA A-1162 906220

Sci. - Phys  
Mar 62

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Rotational Structure of the Raman Bands of  
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Teller.  
GERMAN, per, Ztschr. f. Physik, Vol 88, 1933,  
pp 209-258.  
P911339767  
AEC OML-TH-1741.

Sci-Nuel Sci  
Nov 67

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Some Magneto-Elastic Torsion Experiments, by  
M. Kortenski, R. Becker.

GERMAN, per, Zeitschrift für Physik, Vol LXXXVIII,  
May 1934, pp 634-646.

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Sci - Phys  
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Method for Obtaining Radium and Polonium, by T. Bjerge.

GERMAN, per, Zeitschrift fur Physik, Vol LXXXIX, 1934.

AEC TR 87

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Scientific - Physics

Schaefer, C., Matossi, F., and Wirtz, K. THE INFRARED REFLECTION SPECTRUM OF SILICATES. [1962] 36p. 30 refs. Order from SLA \$3.60	63-10163	I. Schaefer, C. II. Matossi, F. III. Wirtz, K.
Trans. of <u>Zeitschrift fur Physik</u> (Germany) 1934, v. 89, p. 210-233.		
DESCRIPTORS: *Infrared spectroscopy, *Silicates, Crystal structure, Reflection, Frequency.		

The data on reflection measurements in the infrared spectra of silicates are presented. Two regularly occurring reflection bands between 8 and 12 and 17 and 20 can be correlated with the polymerizations of the  $\text{SiO}_4$  groups. A middle band between 14 and 18, which appears in particular in silicates can be attributed to other coordination polyhedra ( $\text{AlO}_6$ ,  $\text{BeO}_4$ ). The short-wave band between 8 and 12, which is at (Physics--Spectroscopy, TT, v. 9, no. 12) (over)

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Ionic- and Electro-Optical Cylindrical Lenses and  
Prisms, (Part 1), by Richard Herzog, 25 pp.

GERMAN, per, Z Physik, Vol LXXXIX, 1934, pp 447-473.

7089609

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Sci - Phys  
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On the Compton Effect for Bound Electrons, by  
J. Franz, 49 pp.  
GERMAN, per, Z. Phy, Vol 90, 1934, pp 623-649.  
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May 69

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Crystal Plasticity. Part III. The Mechanism of  
the Slip Process, by E. Orowan, 22 pp.

GERMAN, per, Zeitschrift Physik, Vol LXXXIX, 1934,  
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AEC Tr 1770

Scientific - Physics  
CTS/DRX

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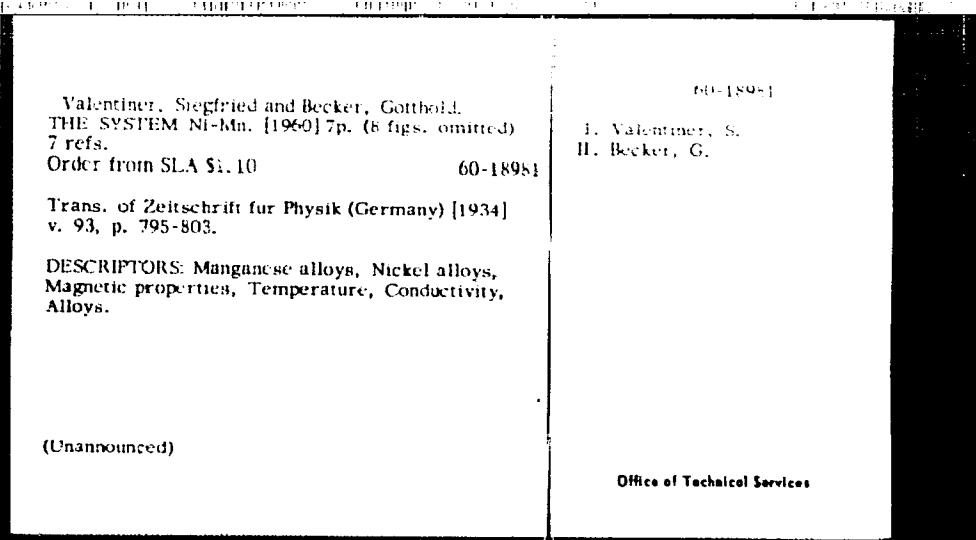
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